

BIB

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06/14/99 09:15

PPL#: 08/251549 ATTY DOCK NO: CORRESPONDENCE ADDRESS: CUSTOMER NO. 000000
64157014 CATERPILLAR INC.

ILDT: 05/31/94 ATTN: JOSEPH W. KEEN

ATNO: 5634448 PATENT DEPT., AB6490

SSDT: 06/03/97 GAU: 3402 100 N.E. ADAMS ST.

CITY: PEORIA

ST/CO CODE: IL ZIP/CD: 616296490

AX: () - TEL: () -

MAIL

DOCK CL/SC: 123/478.000 FOR PR: N

JRR CL/SC: 123/480.000 PARENT: N

TITLE:

METHOD AND STRUCTURE FOR CONTROLLING AN APPARATUS, SUCH AS A FUEL
INJECTOR, USING ELECTRONIC TRIMMING

INVENTORS:

01 SHINGGLE

RONALD D.

(AUTH):

(CITY,ST/CO CODE): PEORIA

IL

02 SMITH

VERNON R.

PEORIA

IL

USH SEND KEY TO DISPLAY MORE APPLICANTS

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INJECTOR, USING ELECTRONIC TRIMMING

INVENTORS:

03 DEKEYSER

RICHARD A.

(AUTH):

(CITY,ST/CO CODE): EDELSTEIN

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04 GLASSEY

STEPHEN F.

EAST PEORIA

IL

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1511

BOOK CL/SC: 123/478.000 FOR: N

CURR CL/SC: 123/480.000 PARENT: N

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METHOD AND STRUCTURE FOR CONTROLLING AN APPARATUS, SUCH AS A FUEL
INJECTOR, USING ELECTRONIC TRIMMING

INVENTORS:

05 AL-CHARIF

YASSER A.

(AUTH):

(CITY,ST/CO CODE): PEORIA

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END OF DISPLAY

PATENT NUMBER: 5634448

ISSUE DATE: 06/03/97

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EL INJECTOR, USING ELECTRONIC TRIMMING

APPLICANT: SHINGGLE, RONALD D. ; SMITH, VERNON R.

DEKEYSER, RICHARD A. ; GLASSEY, STEPHEN F.

AL-CHARIF, YASSER A.

EL: 7191 FRAME: 0899 MAILROOM DT: 09/26/94 NEW APP FIL RCPT DT: 11/21/94

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ASSIGNOR: SHINGGLE, RONALD D.

EXC DATE: 07/21/94

SMITH, VERNON R.

EXC DATE: 08/03/94

DEKEYSER, RICHARD A.

EXC DATE: 08/15/94

06/14/99 09:15

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GLASSEY, STEPHEN F.

EXC DATE: 07/22/94

AL-CHARIF, YASSER A.

EXC DATE: 08/03/94

ASSIGNEE: CATERPILLAR INC.

4H PARK ROAD, PONTIAC, ILLINOIS 61629-6490

BRIEF:

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

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BLOOMFIELD HILLS, MICHIGAN 48304

FOR MORE INFORMATION FOR THIS PATENT NUMBER 06/14/99 09:15